Universitatea Transilvania din Brașov

Facultatea de Inginerie Tehnologică și Management Industrial

Departamentul Ingineria fabricației

Tematica propusă pentru admiterea la doctorat Septembrie 2019

Domeniul de doctorat Inginerie industrială

Conducător de doctorat Prof.dr.ing. Gheorghe Oancea

Tematica:

I. Refabricarea produselor industriale în contextul economiei circulare utilizând tehnologii inovative

II. Cercetari privind fabricația digitală a produselor industriale

Bibliografie recomandată:

1. Matsumoto, M., et al. (2016) Trends and research challenges in remanufacturing, Int. J. of Precis. Eng. and Manuf.-Green Tech. 3: 129. doi:10.1007/s40684-016-0016-4
2. Bagci, E., (2009) Reverse engineering applications for recovery of broken or worn parts and re-manufacturing: Three case studies. Advances in Engineering Software, Vol. 40, pp. 407–418.
3. Buican G. R., Oancea G., Manolescu A., Remanufacturing of Damaged Parts Using Selective Laser Melting Technology, Applied Mechanics and Materials, Vol. 693, pp. 285-290, 2014, doi:10.4028/www.scientific.net/AMM.693.285 .
4. Haba, S.A., Oancea G., (2015) Digital manufacturing of air-cooled single-cylinder engine block, Vol. 80, Nr. 5–8, pp 747–759, doi.org/10.1007/s00170-015-7038-x .
5. Manolescu, A., Oancea, G., Pescaru, R., Udroiu, R. & Bădan I., (2011). Redesigning and Manufacturing of Damaged Gears Using Innovative Technologies, Proceedings of 5th International Conference on Manufacturing Science and Education, pp. 317-321, Sibiu, Romania.
6. Oancea, G.; Manolescu, A.; Bădan, I. & Pescaru, R. (2013). Customized Software Tools Integrated in Reverse Engineering Process of Rectangular Parts with Holes. Journal of Applied Mechanics and Materials, Vol. 371, pp. 473-477.
7. Vinesh, R. & Kiran F.J. (2008). Reverse Engineering – An Industrial Perspective, Springer-Verlag, ISBN 978-1-84628-855-5, London, UK.
8. Gebhardt, A (2012). Understanding Additive Manufacturing, Carl Hanser Verlag, Munich, ISBN 978-3-446-42552-1, Munich, Germany.

Transilvania University of Brașov

Faculty of Technological Engineering and Industrial Management

Department of Manufacturing Engineering

Proposed topic for doctoral studies admission contest – September 2019

Doctoral field Industrial Engineering

Doctoral coordinator Prof. dr. eng. Gheorghe OANCEA

Topics:

I. Remanufacturing of industrial products in context of circular economy using innovative technologies

II. Research regarding digital manufacturing of industrial products

Recommended bibliography:

1. Matsumoto, M., et al. (2016) Trends and research challenges in remanufacturing, Int. J. of Precis. Eng. and Manuf.-Green Tech. 3: 129. doi:10.1007/s40684-016-0016-4
2. Bagci, E., (2009) Reverse engineering applications for recovery of broken or worn parts and re-manufacturing: Three case studies. Advances in Engineering Software, Vol. 40, pp. 407–418.
3. Buican G. R., Oancea G., Manolescu A., Remanufacturing of Damaged Parts Using Selective Laser Melting Technology, Applied Mechanics and Materials, Vol. 693, pp. 285-290, 2014, doi:10.4028/www.scientific.net/AMM.693.285 .
4. Haba, S.A., Oancea G., (2015) Digital manufacturing of air-cooled single-cylinder engine block, Vol. 80, Nr. 5–8, pp 747–759, doi.org/10.1007/s00170-015-7038-x .
5. Manolescu, A., Oancea, G., Pescaru, R., Udroiu, R. & Bădan I., (2011). Redesigning and Manufacturing of Damaged Gears Using Innovative Technologies, Proceedings of 5th International Conference on Manufacturing Science and Education, pp. 317-321, Sibiu, Romania.
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